

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus 'available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEx enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN

NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and
right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:42:09 ON 20 MAY 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:42:16 ON 20 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAY 2003 HIGHEST RN 518003-32-2

DICTIONARY FILE UPDATES: 19 MAY 2003 HIGHEST RN 518003-32-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

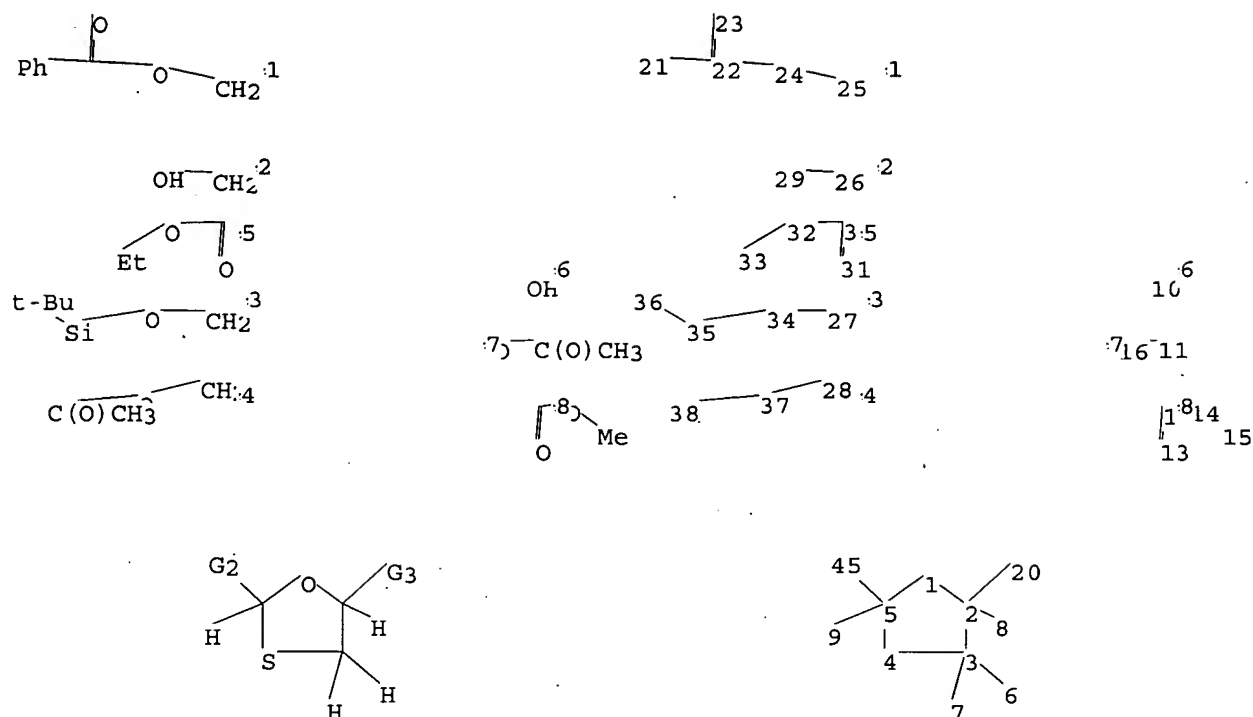
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading C:\Program Files\Stnexp\Queries\10073116.str



chain nodes :

6 7 8 9 10 11 12 13 14 15 16 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 45

ring nodes :

1 2 3 4 5

chain bonds :

2-8 2-20 3-6 3-7 5-9 5-45 11-16 12-13 12-14 14-15 21-22 22-23 22-24
24-25 26-29 27-34 28-37 30-31 30-32 32-33 34-35 35-36 37-38

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 2-20 3-4 4-5 5-45 11-16 12-13 12-14 22-23 22-24 30-31
30-32 37-38

exact bonds :

2-8 3-6 3-7 5-9 14-15 21-22 24-25 26-29 27-34 28-37 32-33 34-35 35-36

G2: [*1], [*2], [*3], [*4], [*5]

G3: [*6], [*7], [*8]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
Thomas McKenzie 05/21/2003SS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS 45:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 10:42:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED 18 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 106 TO 614
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 10:42:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 450 TO ITERATE

100.0% PROCESSED 450 ITERATIONS
SEARCH TIME: 00.00.01

33 ANSWERS

L3 33 SEA SSS FUL L1

=> sort l3 rn

SORT ENTIRE ANSWER SET? (Y)/N:.
PROCESSING COMPLETED FOR L3

L4 33 SORT L3 RN

=> d 1-33 ide cbib pi

L4 ANSWER 1 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 136794-46-2 REGISTRY

CN 1,3-Oxathiolane-5-carboxylic acid, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, methyl ester, 3-oxide, [2S-(2 α ,3 α ,5 α)]-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

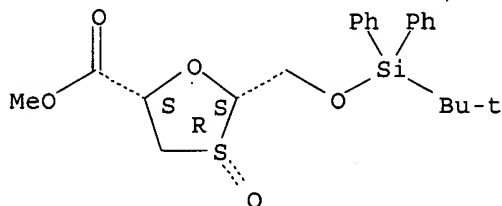
MF C22 H28 O5 S Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

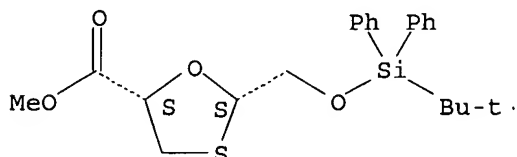
2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:160707 Structure-activity relationships of β -D-(2S,5R)- and α -D-(2S,5S)-1,3-oxathiolanyl nucleosides as potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Shanmuganathan, Kirupathevy; Nampalli, Satyanarayana; Chun, Moon W.; Chung, Won Keun; Choi, Bo G.; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(18), 2627-38 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

REFERENCE 2: 115:232751 Enantiomeric synthesis of (+)-BCH-189 [(+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine] from D-mannose and its anti-HIV activity. Chu, Chung K.; Beach, J. Warren; Jeong, Lak S.; Choi, Bo G.; Comer, Frank I.; Alves, Antonio J.; Schinazi, Raymond F. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Organic Chemistry, 56(23), 6503-5 (English) 1991. CODEN: JOCEAH. ISSN: 0022-3263.

L4 ANSWER 2 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 136794-47-3 REGISTRY
CN 1,3-Oxathiolane-5-carboxylic acid, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxymethyl]-, methyl ester, (2S-cis)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H28 O4 S Si
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

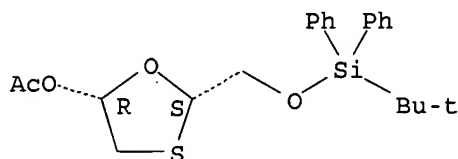
REFERENCE 1: 119:160707 Structure-activity relationships of β -D-(2S,5R)- and α -D-(2S,5S)-1,3-oxathiolanyl nucleosides as potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Shanmuganathan, Kirupathevy; Nampalli, Satyanarayana; Chun, Moon W.; Chung, Won Keun; Choi, Bo G.; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(18), 2627-38 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

REFERENCE 2: 115:232751 Enantiomeric synthesis of (+)-BCH-189 [(+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine] from D-mannose and its anti-HIV activity. Chu, Chung K.; Beach, J. Warren; Jeong, Lak S.; Choi, Bo G.; Comer, Frank I.; Alves, Antonio J.; Schinazi, Raymond F. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal

of Organic Chemistry, 56(23), 6503-5 (English) 1991. CODEN: JOCEAH.
ISSN: 0022-3263.

L4 ANSWER 3 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 136794-48-4 REGISTRY
CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-,
acetate, (2S-cis)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H28 O4 S Si
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Absolute stereochemistry.



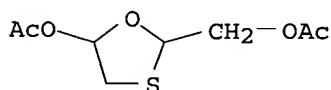
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:160707 Structure-activity relationships of
 β -D-(2S,5R)- and α -D-(2S,5S)-1,3-oxathiolanyl nucleosides as
potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J.
Warren; Kim, Hea O.; Shanmuganathan, Kirupathevy; Nampalli, Satyanarayana;
Chun, Moon W.; Chung, Won Keun; Choi, Bo G.; Chu, Chung K. (Coll. Pharm.,
Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry,
36(18), 2627-38 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

REFERENCE 2: 115:232751 Enantiomeric synthesis of (+)-BCH-189
[(+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine] from
D-mannose and its anti-HIV activity. Chu, Chung K.; Beach, J. Warren;
Jeong, Lak S.; Choi, Bo G.; Comer, Frank I.; Alves, Antonio J.; Schinazi,
Raymond F. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal
of Organic Chemistry, 56(23), 6503-5 (English) 1991. CODEN: JOCEAH.
ISSN: 0022-3263.

L4 ANSWER 4 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 136831-65-7 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, acetate, (2S-trans)- (9CI)
(CA INDEX NAME)
MF C8 H12 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 115:208463 Synthesis of BCH-189 and related compounds. Liotta, Dennis C.; Choi, Woo Baeg (Emory University, USA). PCT Int. Appl. WO 9111186 A1 19910808, 52 pp. DESIGNATED STATES: W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU; RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US685 19910131. PRIORITY: US 1990-473318 19900201.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9111186	A1	19910808	WO 1991-US685	19910131
W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU				
RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
US 5204466	A	19930420	US 1990-473318	19900201
CA 2075189	AA	19900802	CA 1991-2075189	19910131
AU 9173004	A1	19910821	AU 1991-73004	19910131
AU 658136	B2	19950406		
EP 513200	A1	19921119	EP 1991-904454	19910131
EP 513200	B1	19980909		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
HU 62566	A2	19930528	HU 1992-2496	19910131
JP 05505794	T2	19930826	JP 1991-504897	19910131
JP 07000618	B4	19950111		
RO 108564	B1	19940630	RO 1992-1056	19910131
AT 170750	E	19980915	AT 1991-904454	19910131
EP 872237	A1	19981021	EP 1998-201737	19910131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
RU 2125558	C1	19990127	RU 1992-16627	19910131
ES 2076130	T3	19990301	ES 1991-904454	19910131
JP 2001019690	A2	20010123	JP 2000-160358	19910131
JP 2001352997	A2	20011225	JP 2001-151617	19910131
JP 2002012591	A2	20020115	JP 2001-151618	19910131
FI 9203446	A	19920730	FI 1992-3446	19920730
NO 9203014	A	19920730	NO 1992-3014	19920730
US 5539116	A	19960723	US 1993-15992	19930210
US 5914400	A	19990622	US 1995-472345	19950607
AU 9540319	A1	19960426	AU 1995-40319	19951211
AU 698859	B2	19981112		
NO 9700385	A	19920730	NO 1997-385	19970129
NO 9700386	A	19920730	NO 1997-386	19970129
HK 1014664	A1	20000526	HK 1998-116019	19981228
US 6153751	A	20001128	US 1999-337910	19990622
AU 9944745	A1	19991111	AU 1999-44745	19990826
AU 715577	B3	20000203	AU 1999-59571	19991119

L4 ANSWER 5 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 136846-22-5 REGISTRY

CN 1,3-Oxathiolane-5-carboxylic acid, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, methyl ester, 3-oxide, [2S-(2 α ,3 β ,5 α)]-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

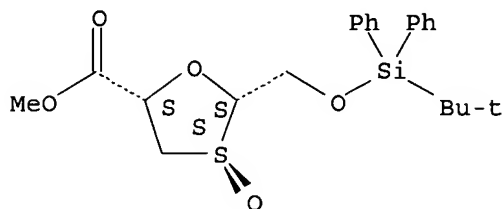
MF C22 H28 O5 S Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:160707 Structure-activity relationships of β -D-(2S,5R)- and α -D-(2S,5S)-1,3-oxathiolanyl nucleosides as potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Shanmuganathan, Kirupathevy; Nampalli, Satyanarayana; Chun, Moon W.; Chung, Won Keun; Choi, Bo G.; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(18), 2627-38 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

REFERENCE 2: 115:232751 Enantiomeric synthesis of (+)-BCH-189 [(+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine] from D-mannose and its anti-HIV activity. Chu, Chung K.; Beach, J. Warren; Jeong, Lak S.; Choi, Bo G.; Comer, Frank I.; Alves, Antonio J.; Schinazi, Raymond F. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Organic Chemistry, 56(23), 6503-5 (English) 1991. CODEN: JOCEAH. ISSN: 0022-3263.

L4 ANSWER 6 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 136846-23-6 REGISTRY

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, (2S-trans)- (9CI) (CA INDEX NAME)

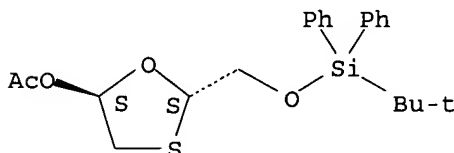
FS STEREOSEARCH

MF C22 H28 O4 S Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:160707 Structure-activity relationships of β -D-(2S,5R)- and α -D-(2S,5S)-1,3-oxathiolanyl nucleosides as potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Shanmuganathan, Kirupathevy; Nampalli, Satyanarayana; Chun, Moon W.; Chung, Won Keun; Choi, Bo G.; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(18), 2627-38 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

REFERENCE 2: 115:232751 Enantiomeric synthesis of (+)-BCH-189 [(+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine] from D-mannose and its anti-HIV activity. Chu, Chung K.; Beach, J. Warren; Jeong, Lak S.; Choi, Bo G.; Comer, Frank I.; Alves, Antonio J.; Schinazi, Raymond F. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Organic Chemistry, 56(23), 6503-5 (English) 1991. CODEN: JOCEAH. ISSN: 0022-3263.

L4 ANSWER 7 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 136891-13-9 REGISTRY

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, cis- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, cis-(+)-

FS STEREOSEARCH

DR 137173-26-3

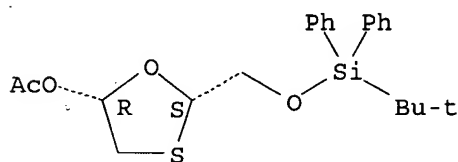
MF C22 H28 O4 S Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 128:75640 Synthesis and antiviral activity of 2'-deoxy-5-fluoro-3'-thiacytidine and nucleoside analogs. Liotta, Dennis C.; Schinazi, Raymond F.; Choi, Woo-baeg (Emory University, USA). U.S. US 5700937 A 19971223, 22 pp., Cont.-in-part of U.S. Ser. No. 402,730. (English). CODEN: USXXAM. APPLICATION: US 1995-481556 19950607. PRIORITY: US 1990-473318 19900201; US 1991-659760 19910222; US 1991-736089 19910726; US 1993-92248 19930715; US 1995-402730 19950315.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5700937	A	19971223	US 1995-481556	19950607
US 5204466	A	19930420	US 1990-473318	19900201

EP 872237	A1	19981021	EP 1998-201737	19910131
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 2001019690	A2	20010123	JP 2000-160358	19910131
JP 2001352997	A2	20011225	JP 2001-151617	19910131
JP 2002012591	A2	20020115	JP 2001-151618	19910131
US 5210085	A	19930511	US 1991-659760	19910222
US 5914400	A	19990622	US 1995-472345	19950607
US 6153751	A	20001128	US 1999-337910	19990622
AU 9944745	A1	19991111	AU 1999-44745	19990826
AU 715577	B3	20000203	AU 1999-59571	19991119

REFERENCE 2: 120:54903 The preparation of 2'-deoxy-5-fluoro-3'-thiacytidine and related compounds as anti-HIV nucleosides. Liotta, Dennis C.; Schinazi, Raymond F.; Choi, Woo Baeg (Emory University, USA). U.S. US 5210085 A 19930511, 24 pp. Cont.-in-part of U.S. Ser. No. 473,318. (English). CODEN: USXXAM. APPLICATION: US 1991-659760 19910222. PRIORITY: US 1990-473318 19900201.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5210085	A	19930511	US 1991-659760	19910222
	US 5204466	A	19930420	US 1990-473318	19900201
	CA 2075189	AA	19900802	CA 1991-2075189	19910131
	HU 62566	A2	19930528	HU 1992-2496	19910131
	AT 170750	E	19980915	AT 1991-904454	19910131
	EP 872237	A1	19981021	EP 1998-201737	19910131
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	ES 2076130	T3	19990301	ES 1991-904454	19910131
	JP 2001019690	A2	20010123	JP 2000-160358	19910131
	JP 2001352997	A2	20011225	JP 2001-151617	19910131
	JP 2002012591	A2	20020115	JP 2001-151618	19910131
	US 5276151	A	19940104	US 1991-803028	19911206
	IL 100965	A1	19991231	IL 1992-100965	19920217
	CA 2104399	AA	19920823	CA 1992-2104399	19920220
	WO 9214743	A2	19920903	WO 1992-US1339	19920220
	WO 9214743	A3	19921029		
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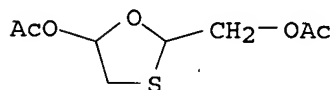
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REFERENCE 3: 115:208463 Synthesis of BCH-189 and related compounds. Liotta, Dennis C.; Choi, Woo Baeg (Emory University, USA). PCT Int. Appl. WO 9111186 A1 19910808, 52 pp. DESIGNATED STATES: W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU; RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US685 19910131. PRIORITY: US 1990-473318 19900201.

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AU 715577	B3	20000203	AU 1999-59571	19991119

L4 ANSWER 8 OF 33 REGISTRY COPYRIGHT 2003 ACS
 RN 136891-14-0 REGISTRY
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 MF C8 H12 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 115:208463 Synthesis of BCH-189 and related compounds. Liotta, Dennis C.; Choi, Woo Baeg (Emory University, USA). PCT Int. Appl. WO 9111186 A1 19910808, 52 pp. DESIGNATED STATES: W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU; RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US685 19910131. PRIORITY: US 1990-473318 19900201.

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L4 ANSWER 9 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 136891-15-1 REGISTRY

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, trans- (9CI) (CA INDEX NAME)

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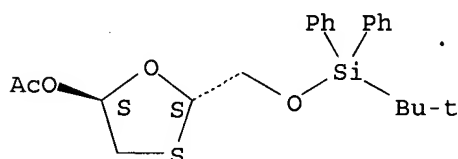
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(*File contains numerically searchable property data)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 128:75640 Synthesis and antiviral activity of

2'-deoxy-5-fluoro-3'-thiacytidine and nucleoside analogs. Liotta, Dennis C.; Schinazi, Raymond F.; Choi, Woo-baeg (Emory University, USA). U.S. US 5700937 A 19971223, 22 pp., Cont.-in-part of U.S. Ser. No. 402,730. (English). CODEN: USXXAM. APPLICATION: US 1995-481556 19950607.

PRIORITY: US 1990-473318 19900201; US 1991-659760 19910222; US 1991-736089 19910726; US 1993-92248 19930715; US 1995-402730 19950315.

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AU 9944745	A1	19991111	AU 1999-44745	19990826
AU 715577	B3	20000203	AU 1999-59571	19991119

REFERENCE 2: 120:54903 The preparation of 2'-deoxy-5-fluoro-3'-thiacytidine and related compounds as anti-HIV nucleosides. Liotta, Dennis C.; Schinazi, Raymond F.; Choi, Woo Baeg (Emory University, USA). U.S. US 5210085 A 19930511, 24 pp. Cont.-in-part of U.S. Ser. No. 473,318. (English). CODEN: USXXAM. APPLICATION: US 1991-659760 19910222. PRIORITY: US 1990-473318 19900201.

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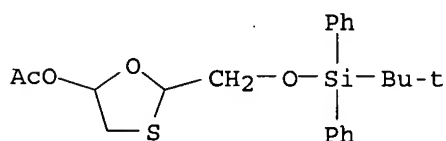
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US 5700937	A	19971223	US 1995-481556	19950607
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US 6114343	A	20000905	US 1995-482875	19950607
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AU 715577	B3	20000203	AU 1999-59571	19991119
US 2002143194	A1	20021003	US 2002-73734	20020211

REFERENCE 3: 115:208463 Synthesis of BCH-189 and related compounds. Liotta, Dennis C.; Choi, Woo Baeg (Emory University, USA). PCT Int. Appl. WO 9111186 A1 19910808, 52 pp. DESIGNATED STATES: W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU; RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US685 19910131. PRIORITY: US 1990-473318 19900201.

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HK 1014664	A1	20000526	HK 1998-116019	19981228
US 6153751	A	20001128	US 1999-337910	19990622
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AU 715577	B3	20000203	AU 1999-59571	19991119

L4 ANSWER 10 OF 33 REGISTRY COPYRIGHT 2003 ACS
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MF C22 H28 O4 S Si
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LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER
(*File contains numerically searchable property data)



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8 REFERENCES IN FILE CA (1957 TO DATE)
8 REFERENCES IN FILE CAPLUS (1957 TO DATE)

- REFERENCE 1: 125:301426 Synthesis and in vitro evaluation of sugar-modified carboranyluridines.. Imamura, Ken-ichiro; Yamamoto, Yoshinori (Graduate School Science, Tohoku Univ., Sendai, 980-77, Japan). Bioorganic & Medicinal Chemistry Letters, 6(15), 1855-1858 (English) 1996. CODEN: BMCLE8. ISSN: 0960-894X. Publisher: Elsevier.
- REFERENCE 2: 124:343952 Synthesis of D-1,3-dioxolane and L-1,3-oxathiolane 5-phenylselenenylpyrimidine nucleosides as potential antiviral agents. Yoo, Jung Man; Moon, Hyun Ju; Chung, Byung Ho; Choi, Bo Gil; Hong, Joong Hee; Chun, Moon Woo (Coll. Pharmacy, Chonnam Natl. Univ., Kwangju, 500-757, S. Korea). Yakhak Hoechi, 40(1), 46-51 (Korean) 1996. CODEN: YAHOA3. ISSN: 0513-4234. Publisher: Pharmaceutical Society of Korea.
- REFERENCE 3: 123:56489 Synthesis of D-1,3-dioxolane and D-1,3-oxathiolane pyrimidine nucleosides. Hong, Joon Hee; Cha, Marie; Shin, Seong Eun; Choi, Bo Gil; Chung, Byung Ho; Kim, Joong Hyup; Lee, Chong-Kyo; Chung, Won-Keun; Chun, Moon Woo (Coll. Pharm., Seoul Natl. Univ., S. Korea). Yakhak Hoechi, 38(6), 703-11 (Korean) 1994. CODEN: YAHOA3. ISSN: 0513-4234. Publisher: Pharmaceutical Society of Korea.
- REFERENCE 4: 123:33572 Synthesis of L-1,3-dioxolane and L-1,3-oxathiolane pyrimidine nucleosides. Hong, Joon Hee; Park, Jeong Ha; Song, Ji Yeon; Choi, Bo Gil; Chung, Byung Ho; Kim, Joong Hyup; Lee, Chong-Kyo; Chung, Won-Keun; Chun, Moon Woo (Coll. Pharm., Seoul Natl. Univ., S. Korea).

Yakhak Hoechi, 38(6), 775-81 (Korean) 1994. CODEN: YAHOA3. ISSN: 0513-4234. Publisher: Pharmaceutical Society of Korea.

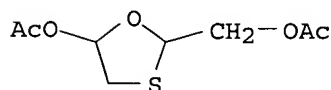
REFERENCE 5: 122:133551 Improved synthesis of L-1,3-dioxolanyl and L-1,3-oxathiolanyl acetate from L-gulose. Xu, Yong Can; Hong, Joon Hee; Park, Jeong Ha; Song, Ji Yeon; Kim, Joong Hyup; Chung, Won-Keun; Chun, Moon Woo (Yanbian Med. Coll., Yanji City, Peop. Rep. China). Archives of Pharmacal Research, 17(5), 386-8 (English) 1994. CODEN: APHRDQ. ISSN: 0253-6269. Publisher: Pharmaceutical Society of Korea.

REFERENCE 6: 122:133540 Improved synthesis of D-1,3-oxathiolanyl acetate from D-mannose and D-galactose. Hong, Joon Hee; Xu, Yong Can; Cha, Marie; Shin, Seong Eun; Kim, Joong Hyup; Chung, Won-Keun; Chun, Moon Woo (Coll. Pharm., Seoul National Univ., Seoul, 151-742, S. Korea). Archives of Pharmacal Research, 17(5), 383-5 (English) 1994. CODEN: APHRDQ. ISSN: 0253-6269. Publisher: Pharmaceutical Society of Korea.

REFERENCE 7: 116:194772 Synthesis of enantiomerically pure (2'R,5'S)-(-)-1-(2-hydroxymethyloxathiolan-5-yl)cytosine as a potent antiviral agent against hepatitis B virus (HBV) and human immunodeficiency virus (HIV). Beach, J. Warren; Jeong, Lak S.; Alves, Antonio J.; Pohl, Douglas; Kim, Hea O.; Chang, Chien Neng; Doong, Shin Lian; Schinazi, Raymond F.; Cheng, Yung Chi; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Organic Chemistry, 57(8), 2217-19 (English) 1992. CODEN: JOCEAH. ISSN: 0022-3263.

REFERENCE 8: 116:194771 An efficient synthesis of enantiomerically pure (+)-(2S,5R)-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine [(+)-BCH-189] from D-galactose. Jeong, Lak S.; Alves, Antonio J.; Carrigan, Sean W.; Kim, Hea O.; Beach, J. Warren; Chu, Chung K. (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Tetrahedron Letters, 33(5), 595-8 (English) 1992. CODEN: TELEAY. ISSN: 0040-4039.

L4 ANSWER 11 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 143491-55-8 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, acetate (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C8 H12 O5 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

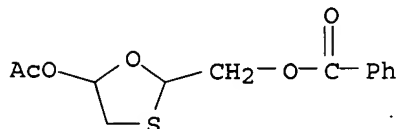


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 117:192246 Enzyme-mediated enantioselective preparation of pure enantiomers of the antiviral agent 2',3'-dideoxy-5-fluoro-3'-thiacytidine (FTC) and related compounds. Hoong, Lee K.; Strange, Luise E.; Liotta, Dennis C.; Koszalka, George W.; Burns, Charlene L.; Schinazi, Raymond F. (Dep. Chem., Emory Univ., Atlanta, GA, 30322, USA). Journal of Organic Chemistry, 57(21), 5563-5 (English) 1992. CODEN: JOCEAH. ISSN: 0022-3263.

L4 ANSWER 12 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 143919-90-8 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, (2R-trans)- (9CI)
(CA INDEX NAME)
MF C13 H14 O5 S
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX
(*File contains numerically searchable property data)

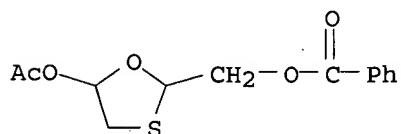


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 118:39269 Expeditionary preparation of (-)-2'-deoxy-3'-thiacytidine (3TC). Humber, David C.; Jones, Martin F.; Payne, Jeremy J.; Ramsay, Michael V. J. (Glaxo Group Res. Ltd., Greenford/Middlesex, UB6 0HE, UK). Tetrahedron Letters, 33(32), 4625-8 (English) 1992. CODEN: TELEAY. ISSN: 0040-4039.

L4 ANSWER 13 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 143957-14-6 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, (2R-cis)- (9CI) (CA INDEX NAME)
MF C13 H14 O5 S
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

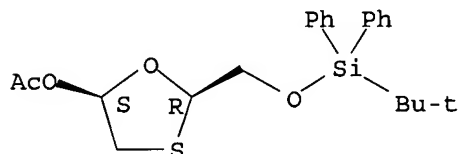
1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 118:39269 Expeditionary preparation of (-)-2'-deoxy-3'-thiacytidine (3TC). Humber, David C.; Jones, Martin F.; Payne, Jeremy J.; Ramsay, Michael V. J. (Glaxo Group Res. Ltd., Greenford/Middlesex, UB6 0HE, UK). Tetrahedron Letters, 33(32), 4625-8 (English) 1992. CODEN: TELEAY. ISSN: 0040-4039.

L4 ANSWER 14 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 145985-96-2 REGISTRY
CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, (2R-cis)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H28 O4 S Si
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:73030 Asym. synthesis of enantiomerically pure β -L-(-)-1,3-oxathiolane nucleosides. Chu, Chung K.; Beach, J. Warren; Jeong, Lak Shin (University of Georgia Research Foundation, Inc., USA). PCT Int. Appl. WO 9210496 A1 19920625, 37 pp. DESIGNATED STATES: W: AU, CA, JP; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US9123 19911205. PRIORITY: US 1990-622762 19901205; US 1991-699197 19910513.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9210496	A1	19920625	WO 1991-US9123	19911205
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W: AU, CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE

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JP 2001097973	A2	20010410	JP 2000-246125	19911205
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EP 1164133	A2	20011219	EP 2001-203571	19911205
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EP 1164133	A3	20020102		
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC

REFERENCE 2: 118:124943 Asymmetric synthesis and biological evaluation of β -L-(2R,5S)- and α -L-(2R,5R)-1,3-oxathiolane-pyrimidine and -purine nucleosides as potential anti-HIV agents. Jeong, Lak S.; Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Nampalli, Satyanarayana; Shanmuganathan, Kirupathevy; Alves, Antonio J.; McMillan, Angela; Chu, Chung K.; Mathis, Rodney (Coll. Pharm., Univ. Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(2), 181-95 (English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

L4 ANSWER 15 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 145986-45-4 REGISTRY

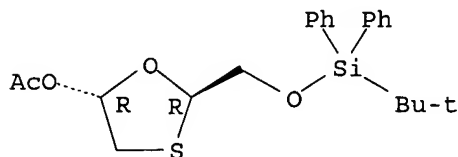
CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, (2R-trans)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H28 O4 S Si

SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

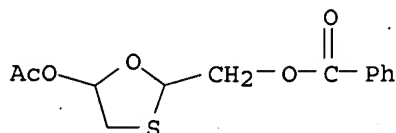
2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 119:73030 Asym. synthesis of enantiomerically pure
β-L-(-)-1,3-oxathiolane nucleosides. Chu, Chung K.; Beach, J.
Warren; Jeong, Lak Shin (University of Georgia Research Foundation, Inc.,
USA). PCT Int. Appl. WO 9210496 A1 19920625, 37 pp. DESIGNATED STATES:
W: AU, CA, JP; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL,
SE. (English). CODEN: PIXXD2. APPLICATION: WO 1991-US9123 19911205.
PRIORITY: US 1990-622762 19901205; US 1991-699197 19910513.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9210496	A1	19920625	WO 1991-US9123	19911205
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5179104	A	19930112	US 1990-622762	19901205
AU 9191259	A1	19920708	AU 1991-91259	19911205
US 5248776	A	19930928	US 1991-803086	19911205
JP 2001097973	A2	20010410	JP 2000-246125	19911205
EP 1164133	A2	20011219	EP 2001-203571	19911205
EP 1164133	A3	20020102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC				

REFERENCE 2: 118:124943 Asymmetric synthesis and biological evaluation of
β-L-(2R,5S)- and α-L-(2R,5R)-1,3-oxathiolane-pyrimidine and
-purine nucleosides as potential anti-HIV agents. Jeong, Lak S.;
Schinazi, Raymond F.; Beach, J. Warren; Kim, Hea O.; Nampalli,
Satyanarayana; Shanmuganathan, Kirupathevy; Alves, Antonio J.; McMillan,
Angela; Chu, Chung K.; Mathis, Rodney (Coll. Pharm., Univ. Georgia,
Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 36(2), 181-95
(English) 1993. CODEN: JMCMAR. ISSN: 0022-2623.

L4 ANSWER 16 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 146726-76-3 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate (9CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C13 H14 O5 S
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1957 TO DATE)

7 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:242447 Synthesis of cis-(±)-2-hydroxymethyl-5-(cytosin-1'-yl)-1,3-oxathiolane (BCH-189). Li, Ji Zhen; Qiu, Xue Peng; Gao, Lian Xun; Ding, Meng Xian (Polymer Chemistry Laboratory, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, Peop. Rep. China). Chinese Chemical Letters, 12(6), 487-488 (English) 2001. CODEN: CCLEE7. ISSN: 1001-8417. Publisher: Chinese Chemical Society.

REFERENCE 2: 134:163263 Synthesis of N-1-oxypyrimidine 1,3-dioxolane and 1,3-oxathiolane nucleosides. Nguyen-Ba, Nghe; Lee, Nola; Chan, Laval; Zacharie, Boulos (BioChem Pharma Inc., Laval, QC, H7V 4A7, Can.). Chemical Communications (Cambridge) (23), 2311-2312 (English) 2000. CODEN: CHCOFS. ISSN: 1359-7345. Publisher: Royal Society of Chemistry.

REFERENCE 3: 125:222330 Synthesis and anti-HIV evaluation of new 5-substituted 2',3'-dideoxy-3'-thiauridine nucleosides. Mourier, Nicolas; Trabaud, Carole; Niddam, Valerie; Graciet, Jean-Christophe; Camplo, Michel; Chermann, Jean-Claude; Kraus, Jean-Louis (Laboratoire Chimie Biomoléculaire, Faculté Sciences Luminy, Marseille, 13288, Fr.). Nucleosides & Nucleotides, 15(7 & 8), 1397-1409 (English) 1996. CODEN: NUNUD5. ISSN: 0732-8311. Publisher: Dekker.

REFERENCE 4: 122:240327 1',2',6'-Thiadiazine 1',1'-dioxide and imidazo [4',5'-c] [1',2',6']-thiadiazine 2',2'-dioxide 1,3-oxathiolane nucleoside analogs: synthesis and anti-HIV-1 activity. Breining, Tibor; Cimpola, Alex R.; Mansour, Tarek S.; Cammack, Nick; Hopewell, Philippa; Ashman, Claire (BioChem. Ther. Inc., Laval, QC, H7V 4A7, Can.). Heterocycles, 41(1), 87-94 (English) 1995. CODEN: HTCYAM. ISSN: 0385-5414. Publisher: Japan Institute of Heterocyclic Chemistry.

REFERENCE 5: 122:133540 Improved synthesis of D-1,3-oxathiolanyl acetate from D-mannose and D-galactose. Hong, Joon Hee; Xu, Yong Can; Cha, Marie; Shin, Seong Eun; Kim, Joong Hyup; Chung, Won-Keun; Chun, Moon Woo (Coll. Pharm., Seoul National Univ., Seoul, 151-742, S. Korea). Archives of Pharmacal Research, 17(5), 383-5 (English) 1994. CODEN: APHRDQ. ISSN: 0253-6269. Publisher: Pharmaceutical Society of Korea.

REFERENCE 6: 119:226345 preparation and virucidal activity of 1,3-oxathiolane nucleoside analogs. Dionne, Gervais (Biochem Pharma Inc., Can.). Eur. Pat. Appl. EP 526253 A1 19930203, 14 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1992-307051 19920803. PRIORITY: GB 1991-16601 19910801.

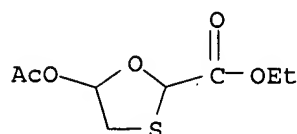
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IL 102616	A1	19961031	IL 1992-102616	19920723
CA 2114221	AA	19930218	CA 1992-2114221	19920724
WO 9303027	A1	19930218	WO 1992-CA321	19920724
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9223408	A1	19930302	AU 1992-23408	19920724
AU 659668	B2	19950525		
JP 07500317	T2	19950112	JP 1992-503131	19920724
JP 2960778	B2	19991012		
HU 70030	A2	19950928	HU 1994-285	19920724
CZ 283765	B6	19980617	CZ 1994-203	19920724
RU 2126405	C1	19990220	RU 1994-13464	19920724
SK 280131	B6	19990806	SK 1994-104	19920724
ZA 9205668	A	19930428	ZA 1992-5668	19920728
CN 1070191	A	19930324	CN 1992-108995	19920801
CN 1034810	B	19970507		
EP 1155695	A1	20011121	EP 2001-119636	19920803
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
AT 227720	E	20021115	AT 1992-307051	19920803
NO 9400322	A	19940321	NO 1994-322	19940131
US 5538975	A	19960723	US 1994-190203	19940201
US 5618820	A	19970408	US 1995-487452	19950607
CN 1132073	A	19961002	CN 1995-118741	19951103
CN 1074924	B	20011121		
CN 1302612	A	20010711	CN 2000-117901	20000526

REFERENCE 7: 118:169533 Preparation of 1,3-oxathiolane nucleosides useful in treatment of hepatitis. Belleau, Bernard; Nguyen Ba Nghe (Biochem Pharma Inc., Can.). Eur. Pat. Appl. EP 515144 A1 19921125, 15 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1992-304530 19920519. PRIORITY: GB 1991-10874 19910520.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 515144	A1	19921125	EP 1992-304530	19920519
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IL 101836	A1	19970318	IL 1992-101836	19920512
ZA 9203477	A	19930127	ZA 1992-3477	19920513
AU 9216351	A1	19921126	AU 1992-16351	19920518
AU 656961	B2	19950223		
CA 2068943	AA	19921121	CA 1992-2068943	19920519
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JP 3167788	B2	20010521		
JP 11322608	A2	19991124	JP 1999-98736	19920520
JP 2001226268	A2	20010821	JP 2001-46491	19920520
US 5486520	A	19960123	US 1993-166320	19931210

L4 ANSWER 17 OF 33 REGISTRY COPYRIGHT 2003 ACS
 RN 147027-18-7 REGISTRY
 CN 1,3-Oxathiolane-2-carboxylic acid, 5-(acetyloxy)-, ethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C8 H12 O5 S
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 118:213450 Processes for the diastereoselective synthesis of nucleosides. Mansour, Tarek; Jin, Haolun; Tse, Allan H. L.; Siddiqui, Arshad M. (Biochem Pharma Inc., Can.). Eur. Pat. Appl. EP 515157 A1 19921125, 56 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1992-304552 19920520. PRIORITY: US 1991-703379 19910521.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 515157	A1	19921125	EP 1992-304552	19920520
EP 515157	B1	19970903		
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ZA 9203641	A	19930224	ZA 1992-3641	19920519
CA 2069024	AA	19921122	CA 1992-2069024	19920520
CA 2069024	C	19970923		
CA 2069063	AA	19921122	CA 1992-2069063	19920520
CA 2069063	C	19970715		
NO 9201988	A	19921123	NO 1992-1988	19920520
NO 9201989	A	19921123	NO 1992-1989	19920520
AU 9216394	A1	19921126	AU 1992-16394	19920520
AU 655973	B2	19950119		
AU 9216395	A1	19921126	AU 1992-16395	19920520
AU 668086	B2	19960426		
HU 67726	A2	19950428	HU 1993-3296	19920520
HU 67471	A2	19950428	HU 1993-3297	19920520
AT 133958	E	19960215	AT 1992-304551	19920520
ES 2084937	T3	19960516	ES 1992-304551	19920520
IL 101931	A1	19961205	IL 1992-101931	19920520
IL 101932	A1	19970415	IL 1992-101932	19920520
AT 157662	E	19970915	AT 1992-304552	19920520
ES 2104832	T3	19971016	ES 1992-304552	19920520
IL 116176	A1	19980208	IL 1992-116176	19920520
IL 116109	A1	19981227	IL 1992-116109	19920520
CZ 284975	B6	19990414	CZ 1996-2224	19920520
CZ 285220	B6	19990616	CZ 1993-2492	19920520
RU 2163909	C2	20010310	RU 1996-119766	19920520
CN 1067245	A	19921223	CN 1992-103924	19920521
CN 1035555	B	19970806		
CN 1067654	A	19930106	CN 1992-103921	19920521
CN 1038591	B	19980603		
JP 05186465	A2	19930727	JP 1992-129155	19920521
JP 3229013	B2	20011112		
JP 05186463	A2	19930727	JP 1992-129163	19920521
JP 3330972	B2	20021007		
JP 2001354667	A2	20011225	JP 2001-136217	19920521
TW 467907	B	20011211	TW 1999-88109374	19920602

CN 1116204	A	19960207	CN 1995-102412	19950310
CN 1050603	B	20000322		
FI 9600286	A	19960119	FI 1996-286	19960119
CN 1229078	A	19990922	CN 1998-122383	19981203
CN 1229079	A	19990922	CN 1998-122384	19981203
CN 1097049	B	20021225		

L4 ANSWER 18 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157528-96-6 REGISTRY

CN 1,3-Oxathiolane-2-carboxylic acid, 5-hydroxy-, ethyl ester, (2R,5S)-rel-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-carboxylic acid, 5-hydroxy-, ethyl ester, cis-

OTHER NAMES:

CN Ethyl cis-5-hydroxy-1,3-oxathiolane-2-carboxylate

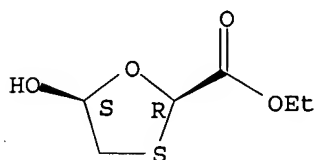
FS STEREOSEARCH

MF C6 H10 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208

JP 2001226373	A2	20010821	JP 2001-59730	19900208
US 5041449	A	19910820	US 1990-546676	19900629
US 5270315	A	19931214	US 1991-666045	19910307
US 5684164	A	19971104	US 1995-468548	19950606
US 6175008	B1	20010116	US 1995-466329	19950606
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 3: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulus; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9414802	A1	19940707	WO 1992-CA557	19921221
W:	AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG			
CA 2152269	AA	19940707	CA 1992-2152269	19921221
AU 9331549	A1	19940719	AU 1993-31549	19921221
EP 674634	A1	19951004	EP 1993-900063	19921221
EP 674634	B1	20030416		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
JP 08504212	T2	19960507	JP 1992-514621	19921221
HU 73655	A2	19960930	HU 1995-1825	19921221
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 19 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157528-97-7 REGISTRY

CN 1,3-Oxathiolane-2-carboxylic acid, 5-hydroxy-, ethyl ester, (2R,5R)-rel-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-carboxylic acid, 5-hydroxy-, ethyl ester, trans-

OTHER NAMES:

CN Ethyl trans-5-hydroxy-1,3-oxathiolane-2-carboxylate

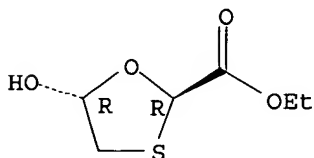
FS STEREOSEARCH

MF C6 H10 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierrette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915. PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807. PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 3: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9414802	A1	19940707	WO 1992-CA557	19921221
	W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
	CA 2152269	AA	19940707	CA 1992-2152269	19921221
	AU 9331549	A1	19940719	AU 1993-31549	19921221
	EP 674634	A1	19951004	EP 1993-900063	19921221
	EP 674634	B1	20030416		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 08504212	T2	19960507	JP 1992-514621	19921221
HU 73655	A2	19960930	HU 1995-1825	19921221
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 20 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157529-00-5 REGISTRY

CN 1,3-Oxathiolane-2-carboxylic acid, 5-(acetyloxy)-, ethyl ester,
(2R,5S)-rel- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-carboxylic acid, 5-(acetyloxy)-, ethyl ester, cis-

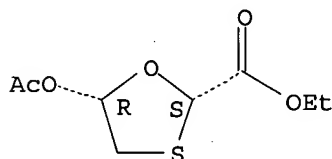
FS STEREOSEARCH

MF C8 H12 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629

US 5270315	A	19931214	US 1991-666045	19910307
US 5684164	A	19971104	US 1995-468548	19950606
US 6175008	B1	20010116	US 1995-466329	19950606
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 3: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulus; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9414802	A1	19940707	WO 1992-CA557	19921221
W:			AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US	
RW:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG	
CA 2152269	AA	19940707	CA 1992-2152269	19921221
AU 9331549	A1	19940719	AU 1993-31549	19921221
EP 674634	A1	19951004	EP 1993-900063	19921221
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R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE	
JP 08504212	T2	19960507	JP 1992-514621	19921221
HU 73655	A2	19960930	HU 1995-1825	19921221
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 21 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157529-01-6 REGISTRY

CN 1,3-Oxathiolane-2-carboxylic acid, 5-(acetyloxy)-, ethyl ester, (2R,5R)-rel- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-carboxylic acid, 5-(acetyloxy)-, ethyl ester, trans-

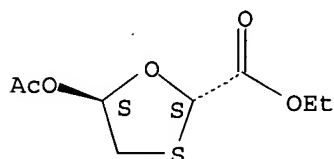
FS STEREOSEARCH

MF C8 H12 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1957 TO DATE)

Thomas McKenzie 05/21/2003

3 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierrette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

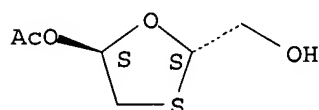
REFERENCE 3: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9414802	A1	19940707	WO 1992-CA557	19921221
	W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG				
	CA 2152269	AA	19940707	CA 1992-2152269	19921221
	AU 9331549	A1	19940719	AU 1993-31549	19921221
	EP 674634	A1	19951004	EP 1993-900063	19921221
	EP 674634	B1	20030416		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 08504212	T2	19960507	JP 1992-514621	19921221
	HU 73655	A2	19960930	HU 1995-1825	19921221
	US 6350753	B1	20020226	US 1998-163374	19980930

US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 22 OF 33 REGISTRY COPYRIGHT 2003 ACS
 RN 157529-02-7 REGISTRY
 CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, trans- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C6 H10 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9414802	A1	19940707	WO 1992-CA557	19921221
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 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
 BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG

CA 2152269	AA	19940707	CA 1992-2152269	19921221
AU 9331549	A1	19940719	AU 1993-31549	19921221
EP 674634	A1	19951004	EP 1993-900063	19921221
EP 674634	B1	20030416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08504212	T2	19960507	JP 1992-514621	19921221
HU 73655	A2	19960930	HU 1995-1825	19921221
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 23 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157604-90-5 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, acetate, cis- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN cis-5-Acetoxy-1,3-oxathiolane-2-methanol acetate

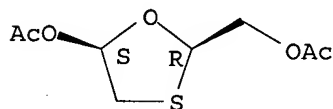
FS STEREOSEARCH

MF C8 H12 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English).

CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulus; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9414802	A1	19940707	WO 1992-CA557	19921221
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
CA 2152269	AA	19940707	CA 1992-2152269	19921221
AU 9331549	A1	19940719	AU 1993-31549	19921221
EP 674634	A1	19951004	EP 1993-900063	19921221
EP 674634	B1	20030416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08504212	T2	19960507	JP 1992-514621	19921221
HU 73655	A2	19960930	HU 1995-1825	19921221
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 24 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 157604-91-6 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, acetate, trans- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN trans-5-Acetoxy-1,3-oxathiolane-2-methanol acetate

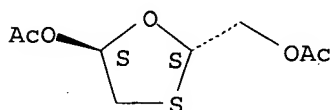
FS STEREOSEARCH

MF C8 H12 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 121:179593 Process for preparing substituted 1,3-oxathiolanes with antiviral properties. Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulus; Nguyen-Ba, Nghe; Belleau, Bernard (Belleau, Pierrette, Can.; Biochem Pharma Inc.). PCT Int. Appl. WO 9414802 A1 19940707, 70 pp. DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1992-CA557 19921221. PRIORITY: US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9414802	A1	19940707	WO 1992-CA557	19921221
	W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
	CA 2152269	AA	19940707	CA 1992-2152269	19921221
	AU 9331549	A1	19940719	AU 1993-31549	19921221
	EP 674634	A1	19951004	EP 1993-900063	19921221
	EP 674634	B1	20030416		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 08504212	T2	19960507	JP 1992-514621	19921221
	HU 73655	A2	19960930	HU 1995-1825	19921221
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 25 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 174208-76-5 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, α -benzoate, (2R,5S)-rel-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, α -benzoate, cis-

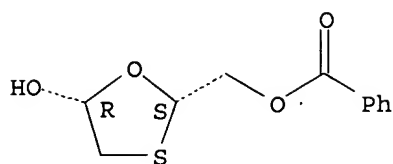
FS STEREOSEARCH

MF C11 H12 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2001020026	A1	20010906	US 1998-172848	19981015
US 6350753	B1	20020226	US 1998-163374	19980930
US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5466806	A	19951114	US 1993-40163	19930329
US 5047407	A	19910910	US 1989-308101	19890208
JP 2000143662	A2	20000526	JP 1999-370063	19900208
JP 2001226373	A2	20010821	JP 2001-59730	19900208
US 5041449	A	19910820	US 1990-546676	19900629
US 5270315	A	19931214	US 1991-666045	19910307
US 5684164	A	19971104	US 1995-468548	19950606
US 6175008	B1	20010116	US 1995-466329	19950606
US 6350753	B1	20020226	US 1998-163374	19980930
US 2001041797	A1	20011115	US 2001-760380	20010116
US 2003087918	A1	20030508	US 2002-73116	20020212

PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 26 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 174208-77-6 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, α -benzoate, (2R,5R)-rel-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, α -benzoate, trans-

FS STEREOSEARCH

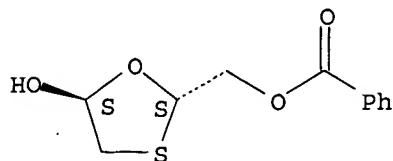
DR 163774-35-4

MF C11 H12 O4 S

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 27 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 174388-78-4 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, (2R,5S)-rel- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, cis-

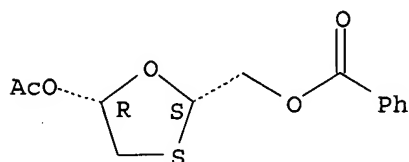
FS STEREOSEARCH

MF C13 H14 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 28 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 174388-79-5 REGISTRY

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, (2R,5R)-rel- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Oxathiolane-2-methanol, 5-(acetyloxy)-, benzoate, trans-

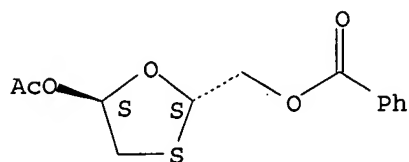
FS STEREOSEARCH

MF C13 H14 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)

2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

REFERENCE 2: 124:202959 Preparation of substituted 1,3-oxathiolane nucleoside analogs with antiviral properties.. Belleau, Bernard; Mansour, Tarek; Tse, Allan; Evans, Colleen A.; Jin, Haolun; Zacharie, Boulos; Nguyen Ba, Nghe (Biochem Pharma Inc., Can.). U.S. US 5466806 A 19951114, 19 pp. Cont.-in-part of U.S. Ser. No. 564,160, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1993-40163 19930329. PRIORITY: US 1989-308101 19890208; US 1990-546676 19900629; US 1990-564160 19900807.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466806	A	19951114	US 1993-40163	19930329
	US 5047407	A	19910910	US 1989-308101	19890208
	JP 2000143662	A2	20000526	JP 1999-370063	19900208
	JP 2001226373	A2	20010821	JP 2001-59730	19900208
	US 5041449	A	19910820	US 1990-546676	19900629
	US 5270315	A	19931214	US 1991-666045	19910307
	US 5684164	A	19971104	US 1995-468548	19950606
	US 6175008	B1	20010116	US 1995-466329	19950606
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2001041797	A1	20011115	US 2001-760380	20010116
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 29 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 202532-88-5 REGISTRY

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, (2S)- (9CI) (CA INDEX NAME)

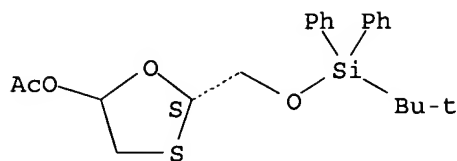
FS STEREOSEARCH

MF C22 H28 O4 S Si

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 128:154333 Synthesis and in Vitro Evaluation of 5-closo- and 5-nido-Orthocarboranyluridines as Boron Carriers. Imamura, Ken-ichiro; Yamamoto, Yoshinori (Tohoku University, Sendai, 980-77, Japan). Bulletin of the Chemical Society of Japan, 70(12), 3103-3110 (English) 1997. CODEN: BCSJA8. ISSN: 0009-2673. Publisher: Chemical Society of Japan.

L4 ANSWER 30 OF 33 REGISTRY COPYRIGHT 2003 ACS

RN 324015-67-0 REGISTRY

CN 1,3-Oxathiolan-5-ol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-, acetate, (2R)- (9CI) (CA INDEX NAME)

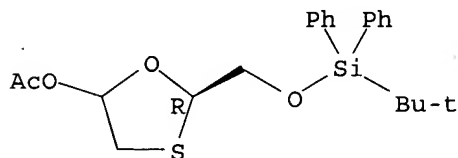
FS STEREOSEARCH

MF C22 H28 O4 S Si

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

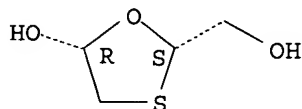
REFERENCE 1: 134:147438 Preparation of 5-(E)-bromovinyl uracil analogs and related pyrimidine nucleosides as antiviral agents. Cheng, Yung-Chi; Chu, Chung K.; Li, Ling; Choi, Yongseok (Yale University, USA; The University of Georgia Research Foundation, Inc.). PCT Int. Appl. WO 2001006986 A2 20010201, 58 pp. DESIGNATED STATES: W: AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US19881 20000720. PRIORITY: US 1999-358028 19990721.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001006986 A2 20010201 WO 2000-US19881 20000720
 WO 2001006986 A3 20011025
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 JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
 MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 2000062288 A5 20010213 AU 2000-62288 20000720
 EP 1204415 A2 20020515 EP 2000-948851 20000720
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL

L4 ANSWER 31 OF 33 REGISTRY COPYRIGHT 2003 ACS
 RN 358349-01-6 REGISTRY
 CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, (2R,5S)-rel- (9CI) (CA INDEX
 NAME)
 FS STEREOSEARCH
 MF C4 H8 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

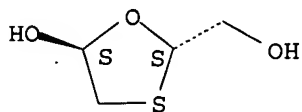
1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and
 substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau,
 Bernard; Belleau, Pierrette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ.
 US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No.
 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848
 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915.
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI US 2001020026 A1 20010906 US 1998-172848 19981015
 US 6350753 B1 20020226 US 1998-163374 19980930
 US 2003087918 A1 20030508 US 2002-73116 20020212

L4 ANSWER 32 OF 33 REGISTRY COPYRIGHT 2003 ACS
 RN 358349-02-7 REGISTRY
 CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, (2R,5R)-rel- (9CI) (CA INDEX
 NAME)
 FS STEREOSEARCH
 MF C4 H8 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



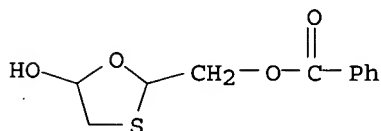
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:211232 Preparation of substituted-1,3-oxathiolane and substituted-1,3-dioxolane nucleosides with antiviral properties. Belleau, Bernard; Belleau, Pierette; Nguyen-ba, Nghe (Can.). U.S. Pat. Appl. Publ. US 20010020026 A1 20010906, 43 pp., Cont.-in-part of U.S. Ser. No. 306,830. (English). CODEN: USXXCO. APPLICATION: US 1998-172848 19981015. PRIORITY: US 1990-564160 19900807; US 1994-306830 19940915. PATENT NO. KIND DATE APPLICATION NO. DATE

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001020026	A1	20010906	US 1998-172848	19981015
	US 6350753	B1	20020226	US 1998-163374	19980930
	US 2003087918	A1	20030508	US 2002-73116	20020212

L4 ANSWER 33 OF 33 REGISTRY COPYRIGHT 2003 ACS
RN 360778-30-9 REGISTRY
CN 1,3-Oxathiolane-2-methanol, 5-hydroxy-, α -benzoate (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H12 O4 S
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 135:242447 Synthesis of cis-(\pm)-2-hydroxymethyl-5-(cytosin-1'-yl)-1,3-oxathiolane (BCH-189). Li, Ji. Zhen; Qiu, Xue Peng; Gao, Lian Xun; Ding, Meng Xian (Polymer Chemistry Laboratory, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, Peop. Rep. China). Chinese Chemical Letters, 12(6), 487-488 (English) 2001. CODEN: CCLLEE7. ISSN: 1001-8417. Publisher: Chinese Chemical Society.

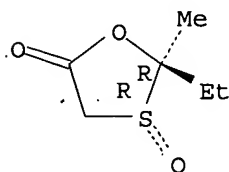
=> s c6h10o3s
L5 339 C6H10O3S

=> s l5 and oxathiolan?/cns
5599 OXATHIOLAN?/CNS
L6 20 L5 AND OXATHIOLAN?/CNS

=> d scan

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 2-ethyl-2-methyl-, 3-oxide, stereoisomer
(8CI)
MF C6 H10 O3 S

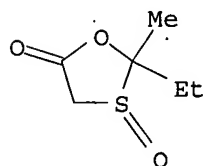
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

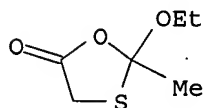
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 2-ethyl-2-methyl-, 3-oxide (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

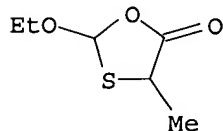
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 2-ethoxy-2-methyl- (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

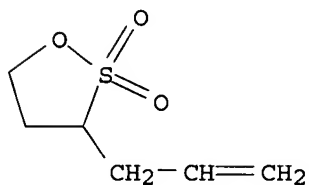
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 2-ethoxy-4-methyl- (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

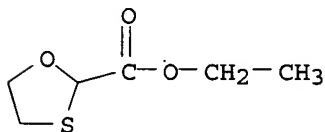
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,2-Oxathiolane, 3-(2-propenyl)-, 2,2-dioxide (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

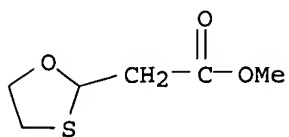
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-2-carboxylic acid, ethyl ester (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

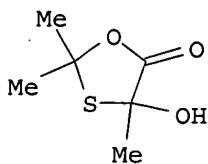
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-2-acetic acid, methyl ester (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

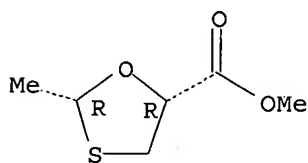
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 4-hydroxy-2,2,4-trimethyl- (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester, (2R-cis)-
(9CI)
MF C6 H10 O3 S

Absolute stereochemistry.

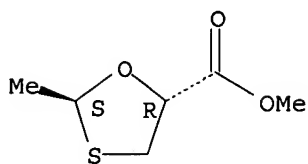


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester,
(2S-trans)- (9CI)
MF C6 H10 O3 S

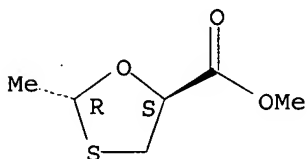
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester,
(2R-trans)- (9CI)
MF C6 H10 O3 S

Absolute stereochemistry.

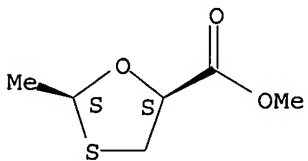


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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

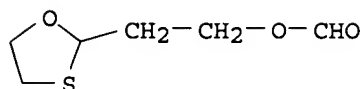
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester, (2S-cis)-
(9CI)
MF C6 H10 O3 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-2-ethanol, formate (9CI)
MF C6 H10 O3 S

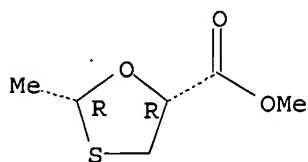


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester, cis-
(9CI)
MF C6 H10 O3 S

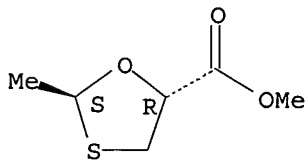
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-5-carboxylic acid, 2-methyl-, methyl ester, trans-
(9CI)
MF C6 H10 O3 S

Relative stereochemistry.

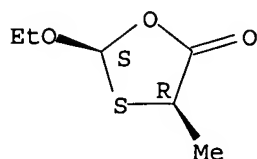


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

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IN 1,3-Oxathiolan-5-one, 2-ethoxy-4-methyl-, cis- (9CI)
MF C6 H10 O3 S

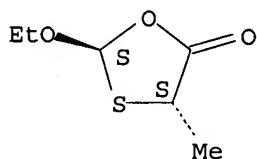
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolan-5-one, 2-ethoxy-4-methyl-, trans- (9CI)
MF C6 H10 O3 S

Relative stereochemistry.

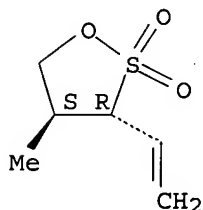


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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

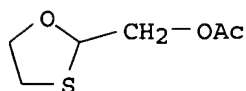
L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,2-Oxathiolane, 3-ethenyl-4-methyl-, 2,2-dioxide, trans- (9CI)
MF C6 H10 O3 S

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 1,3-Oxathiolane-2-methanol, acetate (9CI)
MF C6 H10 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l6 and acetate

438886 ACETATE

L7 1 L6 AND ACETATE

=> d ide cbib pi

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 171284-72-3 REGISTRY

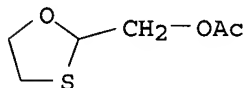
CN 1,3-Oxathiolane-2-methanol, acetate (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C6 H10 O3 S

SR CA

LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 124:30223 Synthesis of 1,3-oxathiolane derivatives as novel precursors of 2',3'-dideoxy-3'-oxa-4'-thioribonucleosides. Nokami, Junzo; Ryokume, Kazuyo; Inada, Junya (Fac. Eng., Okayama univ. Sci., Okayama, 700, Japan). Tetrahedron Letters, 36(34), 6099-100 (English) 1995. CODEN: TELEAY. ISSN: 0040-4039. Publisher: Elsevier.

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

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